

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|-------------------|------------------|---------|------------------|
| L1 | 142 | hydrogen and membrane and palladium and silver and electroless and sputter\$ and steel and support and porous | US-PGPUB; USPAT | ADJ | ON | 2008/01/22 13:34 |
| L2 | 4 | hydrogen and membrane and palladium and silver and electroless and sputter\$ and steel and support and porous and polish | US-PGPUB; USPAT | ADJ | ON | 2008/01/22 13:34 |
| S1 | 1 | ("6152987").PN. | US-PGPUB; USPAT | OR | OFF | 2008/01/22 13:31 |
| S2 | 0 | jp-2002119834-\$.did. or jp-2002153740-\$.did. or jp-3288534-\$.did. or tw-400307-\$.did. | US-PGPUB; USPAT | ADJ | ON | 2007/06/20 15:27 |
| S3 | 6 | jp-2002119834-\$.did. or jp-2002153740-\$.did. or jp-3288534-\$.did. or tw-400307-\$.did. | EPO; JPO; DERWENT | ADJ | ON | 2007/06/20 16:16 |
| S4 | 3 | dc and sputter and (target with (palladium or pd)) | EPO; JPO; DERWENT | ADJ | ON | 2007/06/20 16:17 |
| S5 | 168 | dc and sputter and (target with (palladium or pd)) | US-PGPUB; USPAT | ADJ | ON | 2007/06/20 16:18 |
| S6 | 49 | dc and sputter and (target with (palladium or pd)) and (etch or acid) | US-PGPUB; USPAT | ADJ | ON | 2007/06/20 16:18 |
| S7 | 8 | dc and sputter and (target with (palladium or pd)) and (etch or acid) and electroless | US-PGPUB; USPAT | ADJ | ON | 2007/06/20 16:18 |
| S8 | 136 | hydrogen and extraction and membrane and palladium and sputter | US-PGPUB; USPAT | ADJ | ON | 2007/06/21 11:16 |
| S9 | 114 | hydrogen and extraction and (purify or purification) and palladium and sputter | US-PGPUB; USPAT | ADJ | ON | 2007/06/21 11:18 |
| S10 | 191 | hydrogen and (extraction or separation) and (purify or purification) and palladium and sputter | US-PGPUB; USPAT | ADJ | ON | 2007/06/21 11:19 |
| S11 | 20 | hydrogen and (extraction or separation) and (purify or purification) and palladium and sputter and "95".clas | US-PGPUB; USPAT | ADJ | ON | 2007/06/21 11:19 |

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| S12 | 1003 | sputter and (palladium or pd) and (membrane or layer or coat) and (salt or solution) and (electroless or electro-less) | US-PGPUB; USPAT | ADJ | ON | 2007/06/21 13:30 |
| S13 | 61 | sputter and (palladium or pd) and (membrane or layer or coat) and (salt or solution) and (electroless or electro-less) and "204".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/06/21 13:37 |
| S14 | 10 | sputter and (palladium or pd) and (membrane or layer or coat) and (salt near solution) and (electroless or electro-less) and "204".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/06/21 14:12 |
| S15 | 6 | sputter and (palladium or pd) and (membrane or layer or coat) and (salt with (electroless or electro-less)) and "204".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/06/21 14:12 |
| S16 | 265 | (hydrogen permeable membrane) and (manufacture or fabrication or construction or assembly) | US-PGPUB; USPAT | ADJ | ON | 2007/06/22 11:24 |
| S17 | 18 | (hydrogen permeable membrane) with (manufacture or fabrication or construction or assembly) | US-PGPUB; USPAT | ADJ | ON | 2007/06/22 11:24 |
| S18 | 2 | 10/259874.APP. | US-PGPUB; USPAT | ADJ | ON | 2007/06/25 15:39 |
| S19 | 801 | (palladium or pd) with epoxy and (paste or sludge or slime or mixture) | US-PGPUB; USPAT | ADJ | ON | 2007/06/26 17:38 |
| S20 | 35 | (palladium or pd) with epoxy and (paste or sludge or slime or mixture) with (niobium or tantalum) | US-PGPUB; USPAT | ADJ | ON | 2007/06/26 17:44 |
| S21 | 4 | (palladium or pd) with epoxy with (paste or sludge or slime or mixture) with (niobium or tantalum) | US-PGPUB; USPAT | ADJ | ON | 2007/06/25 17:23 |
| S22 | 38 | (paste same (pd or palladium)) and epoxy and electroless and ((pd or plladium) same powder) | US-PGPUB; USPAT | ADJ | ON | 2007/06/26 09:36 |
| S23 | 1 | ("5243142").PN. | US-PGPUB; USPAT | OR | OFF | 2007/06/26 08:56 |
| S24 | 29 | (paste same (pd or palladium)) and epoxy and electroless and ((V or vanadium or Ta or tantalum or niobium or nb) same powder) | US-PGPUB; USPAT | ADJ | ON | 2007/06/26 09:37 |
| S25 | 232133 | palladium pd | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:45 |

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| S26 | 757460 | hydrogen "h.sub.2" | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:45 |
| S27 | 2149422 | membrane film layer coat | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:46 |
| S28 | 321555 | permea\$ | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:46 |
| S29 | 416480 | palladium niobium tantalum pd nb ta | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:47 |
| S30 | 1349187 | paste sludge slime mixture | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:47 |
| S31 | 826938 | resin epoxy | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:48 |
| S32 | 9533 | S25 near2 S27 | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:49 |
| S33 | 4833 | S26 near3 S28 | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:49 |
| S34 | 1070 | (S33 or S29) with S30 with S31 | US-PGPUB; USPAT | OR | ON | 2007/06/26 17:50 |
| S35 | 34 | S32 and S34 | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:46 |
| S36 | 3 | ((("6572748") or ("6203869") or ("4756848")).PN. | USPAT; USOCR | OR | OFF | 2007/06/27 13:28 |
| S37 | 232133 | palladium pd | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S38 | 757460 | hydrogen "h.sub.2" | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S39 | 2149422 | membrane film layer coat | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S40 | 321555 | permea\$ | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S41 | 416480 | palladium niobium tantalum pd nb ta | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S42 | 1349187 | paste sludge slime mixture | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S43 | 826938 | resin epoxy | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S44 | 9533 | S37 near2 S39 | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S45 | 4833 | S38 near3 S40 | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |
| S46 | 1070 | (S45 or S41) with S42 with S43 | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:47 |

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| S47 | 3 | S44 and S46 and ("6572748".pn. or "6203869".pn. or "4756848".pn.) | US-PGPUB; USPAT | OR | ON | 2007/06/27 13:49 |
| S48 | 0 | (palladium or pd) and (membrane or layer or coat or film) and ".mu. m" | USPAT | OR | OFF | 2007/06/27 17:19 |
| S49 | 64 | (palladium or pd) and (membrane or layer or coat or film) and (micrometer or micron) and (DC with sputter) | USPAT | OR | OFF | 2007/07/02 17:31 |
| S50 | 3 | (electroless or electro-less) and sputter and (steel with (support or holder or bowl or plate) with porous) | USPAT | OR | OFF | 2007/06/27 17:37 |
| S51 | 0 | ("20050109609").PN. | USPAT; USOCR | OR | OFF | 2007/06/27 17:38 |
| S52 | 1 | ("6379524").PN. | USPAT; USOCR | OR | OFF | 2007/06/27 17:38 |
| S53 | 1 | ("7112287").PN. | USPAT; USOCR | OR | OFF | 2007/06/28 16:23 |
| S54 | 360 | kulkarni.in. | USPAT | OR | OFF | 2007/06/28 16:51 |
| S55 | 1 | ("6283357").PN. | USPAT; USOCR | OR | OFF | 2007/06/28 16:51 |
| S56 | 32 | (dc or (direct current)) and sputter and target with "99" and "204".clas. | USPAT | OR | OFF | 2007/06/28 16:54 |
| S57 | 19 | (dc or (direct adj current)) and sputter and target with "99" and "204".clas. | USPAT | OR | OFF | 2007/06/28 16:54 |
| S58 | 2 | ("3350846").PN. | USPAT; USOCR | OR | OFF | 2007/06/29 13:23 |
| S59 | 1 | ("6379524").PN. | USPAT; USOCR | OR | OFF | 2007/06/29 13:52 |
| S60 | 2 | ("2773561").PN. | USPAT; USOCR | OR | OFF | 2007/06/29 15:20 |
| S61 | 372 | (polish or etch) and (steel with support or holder) and (HCl or hydrochloric acid) and abrasive | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 10:08 |
| S62 | 1 | (polish or etch) and (steel with support or holder) and (HCl or hydrochloric acid) and abrasive and (ultra-sonic or ultrasonic) and (hydrogen with (membrane or separation or purif\$)) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 10:06 |

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| S63 | 117 | (polish or etch) and (steel with support or holder) and (HCl or hydrochloric acid) and abrasive and (ultra-sonic or ultrasonic) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 10:08 |
| S64 | 0 | ((tetraamine palladium chloride) or (tetraamine palladium dichloride)) and EDTA and (ammonium hydroxide) and hydrazine | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 12:09 |
| S65 | 0 | ((tetraamine palladium chloride) or (tetraamine palladium dichloride)) and (EDTA or (Edetate disodium)) and (ammonium hydroxide) and hydrazine | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 17:32 |
| S66 | 0 | (Pd("NH.sub.3.")".sub.4.Cl.sub.2.") and ("C.sub.10.H.sub.14.N.sub.2.Na.sub.2.O.sub.8.") and ("NH.sub.4.OH") and "NH.sub.2.NH.sub.2.") | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 17:31 |
| S67 | 0 | ((electroless and electro-less) adj plating) and temperature with ("50" same "70") and ((minute or min) with ("120" same "360")) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 13:06 |
| S68 | 20 | ((electroless and electro-less) adj plating) and temperature and (min or minute) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 13:10 |
| S69 | 15919 | (electroless or electro-less) and temperature and (min or minute) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 13:10 |
| S70 | 10719 | ((electroless or electro-less) adj plating) and temperature and (min or minute) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 13:11 |
| S71 | 322 | ((electroless or electro-less) adj plating) and temperature and (min or minute) and (hydrogen with (membrane or purif\$ or separation)) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 14:53 |
| S72 | 0 | ((electroless or electro-less) adj plating) and (temperature with ". degree.C") and (min or minute) and (hydrogen with (membrane or purif\$ or separation)) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 13:14 |
| S73 | 19 | (dc or (direct current)) with sputter and "204".clas. and ((palladium or pd) with target) and power and temperature and pressure | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 16:30 |

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| S74 | 735 | anneal and (palladium or pd) and temperature and (nitrogen or "n.sub.2.") and (min or minutes or hr or hour) and (hydrogen or "h.sub.2.") and membrane | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 17:08 |
| S75 | 22 | anneal and ((palladium or pd) with membrane) and temperature and (nitrogen or "n.sub.2.") and (min or minutes or hr or hour) and (hydrogen or "h.sub.2.") | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 16:32 |
| S76 | 83 | anneal and ((palladium or pd) with (silver or Ag)) and (hydrogen same (separation or membrane or purif)) | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 17:09 |
| S77 | 0 | ("AgNO.sub.3.") and ("C.sub.10.H.sub.14.N.sub.2.Na.sub.2.O.sub.8.") and ("NH.sub.4.OH") and "NH.sub.2.NH.sub.2." | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 17:32 |
| S78 | 112 | (silver nitrate) and (EDTA or (Edetate disodium)) and (ammonium hydroxide) and hydrazine | US-PGPUB; USPAT | ADJ | ON | 2007/07/02 17:53 |
| S79 | 0 | (polish with paper) and (electro polish or electro-polish) and vibration | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 11:54 |
| S80 | 26 | (polish with paper) and vibration | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:31 |
| S81 | 8 | (polish with paper) and vibration and steel | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 11:55 |
| S82 | 27 | (polish with paper) and ultrasonic | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:39 |
| S83 | 228 | preparation and (palladium or pd) and (membrane or layer or coating) and (support or holder) and steel and polish | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:40 |
| S84 | 0 | preparation and (palladium or pd) and (membrane or layer or coating) and (support or holder) and steel and polish and (ultrasonic or ultra-sonic) | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:41 |
| S85 | 33 | preparation and (palladium or pd) and (membrane or layer or coating) and (support or holder) and steel and polish and (ultrasonic or ultra-sonic) | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:41 |

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| S86 | 10 | preparation and ((palladium or pd) with (membrane or layer or coating)) and (support or holder) and steel and polish and (ultrasonic or ultra-sonic) | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:43 |
| S87 | 62698 | ((support or holder or pedestal or platform) with steel) | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:43 |
| S88 | 1816 | ((support or holder or pedestal or platform) with steel) and (polish or etch or reverse sputter) | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:44 |
| S89 | 490 | ((support or holder or pedestal or platform) with steel) and (polish or etch or reverse sputter) and paper | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:44 |
| S90 | 106 | ((support or holder or pedestal or platform) with steel) and (polish or etch or reverse sputter) and paper and (ultrasonic or ultra-sonic) | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:58 |
| S91 | 31 | ((support or holder or pedestal or platform) with steel) and (polish or etch or reverse sputter) and paper and (ultrasonic or ultra-sonic) and electro | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 13:45 |
| S92 | 3 | (("5681217") or ("4055686") or ("20050102809")).PN. | US-PGPUB; USPAT | OR | OFF | 2007/08/13 13:59 |
| S93 | 3 | (("4496373") or ("4536196") or ("4313013")).PN. | US-PGPUB; USPAT | OR | OFF | 2007/08/13 20:20 |
| S94 | 212 | 585/818.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 20:21 |
| S95 | 16 | 585/818.ccls. and (anneal or heat) and (hour or min) and hydrogen and nitrogen | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 20:21 |
| S96 | 1 | ("20030024807").PN. | US-PGPUB; USPAT | OR | OFF | 2007/08/13 20:45 |
| S97 | 50 | (DC with sputter) and (watt or W) and (vacuum pressure) and temperature | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 21:50 |
| S98 | 22 | (DC with sputter) and (watt or W) and (vacuum pressure) and temperature and (palladium or pd) | US-PGPUB; USPAT | ADJ | ON | 2007/08/13 21:50 |